

**REMEDIAL DESIGN/REMEDIAL ACTION (RD/RA)
COOPERATIVE AGREEMENT
PROGRESS REPORT**

AGREEMENT NO.: V-990601-02-0

SITE NAME: McCormick & Baxter Creosoting Co.
Portland, OR

PREPARED BY: Bill Dana, Project Manager
Oregon Dept. of Environmental Quality (DEQ)

DATE: October 30, 1997

PERIOD: July 1, 1997 through September 30, 1997

1. PROGRESS MADE THIS PERIOD

During this reporting period, DEQ received a continuation of the RD/RA Cooperative Agreement from EPA. The previous Agreement expired July 31, 1997. The continuation (Agreement No. V-990601-02-0) became effective on August 1, 1997, and provides funding through September 30, 2001.

Also during this reporting period, DEQ with support from its contractor Ecology & Environment, Inc. (E&E), prepared a Proposed Plan for an Amendment to the Record of Decision for the site. The proposed amendment will change the on-site treatment portion of the selected soil remedy for the site to off-site disposal of highly contaminated soil. A public comment period on the proposed Amendment will run from October 1 thru October 31, 1997.

During the current reporting period, DEQ staff reviewed and provided written comments on several deliverables submitted by E&E. Work products submitted by E&E during the reporting period included the following: draft and final versions of the Groundwater Monitoring Report for the second quarter 1997; a draft Remedial Action Data Summary Report, which summarizes data pertinent to enhancement of the selected groundwater remedy for the site; a Remedial Design Supplemental Sampling Plan, to address data gaps related to completion of the Phase II Demolition plans and the design of the soil remedy; and a Focused Human Health Risk Evaluation, which is based upon the results of the remedial design soil sampling conducted in December 1996. In addition, DEQ staff reviewed three invoices, three Task Order Progress Reports and two Budget and Assumption Proposals (BAPs) submitted by E&E.



DEQ participated in Project Managers' Meetings with EPA and E&E on July 24, and September 23, 1997. The July meeting was held at DEQ headquarters in Portland, and the September meeting was held at EPA's office in Seattle. Also in August, DEQ issued a fact sheet to the public, which summarized the project status and issues.

In total, DEQ staff (excluding the laboratory) spent 419 hours on RD and RA activities during the reporting period. Copies of DEQ's Direct Labor Summaries, for RD/RA activities during this period, are attached.

During this report period, E&E staff conducted a review of DEQ's files to compile a comprehensive data summary for the site. The data was evaluated for inclusion in the site database and for usefulness in preparing the Aquifer Investigation Plan (AQUIP). Also, E&E designed and installed a dust suppression sprinkler system at the site, and evaluated options for addressing the elevated concentrations of inorganics periodically found in the effluent from the two groundwater treatment systems at the site. Routine, quarterly groundwater monitoring was conducted by E&E in July. In addition, E&E conducted or coordinated on-going NAPL recovery, wastewater treatment system operation and maintenance, and general site security and maintenance.

E&E issued Task Order Progress Reports, describing these and other activities, on August 13, 1997 (for the period July 1 through August 2, 1997), on October 3, 1997 (for trailing subcontractor costs incurred during the month of July 1997 only) and on October 8, 1997 (for the period August 3 through September 27, 1997). Copies of these reports are attached.

2. BUDGET STATUS SUMMARY

Budget status summaries are included in the attached Task Order Progress Reports from E&E, and in the attached DEQ accounting tables. Note that there are separate DEQ accounting tables for the original Cooperative Agreement, ending July 31, 1997 (Agreement V-990601-01-1) and for the Cooperative Agreement Extension beginning August 1, 1997 (Agreement V-990601-02-0). Also, note that costs reported under the later Agreement are for Remedial Action only, as DEQ has not yet received Remedial Design grant funds under the new Agreement.

3. SCHEDULE STATUS

The schedule for design and implementation of the soil remedy continues to be impacted by the results of the dioxin sampling conducted in December 1996, and the subsequent submission of archived soil samples for dioxin analyses in April 1997. This additional dioxin sampling, and the subsequent Focused Human Health Risk Evaluation, indicate the on-site treatment described in the 1996 ROD will not achieve a

significant level of risk reduction. Accordingly, DEQ is proposing to amend the ROD and change the soil remedy. Design of the soil remedy cannot be completed until the public comment period has ended and a final decision made concerning the proposed ROD Amendment. Groundwater remedy enhancement tasks are also somewhat behind schedule, as DEQ directed E&E to focus its attention on preparation of a draft Proposed Plan, and there have been some problems with the pilot-scale treatment systems, as described below. Updated schedules for RD and RA activities were prepared by E&E on September 23, 1997. The schedules are oversized and in color and cannot be readily duplicated by DEQ. I believe you received a copy of the schedules at our meeting on September 23. If you would like another copy, please let me know and I will have E&E send you one.

4. ISSUES AND/OR PROBLEMS ENCOUNTERED AND RESOLUTION

As indicated above, the most serious issue/problem during the reporting period continues to be the potential impact of dioxin soil sampling results on the selected soil remedy. The results indicate that low levels of dioxin contamination are present in those areas where soil contamination also exceeds the ROD action levels for arsenic, carcinogenic PAHs, and/or pentachlorophenol. On-site biological treatment, as described in the ROD, would not be expected to effectively reduce dioxin concentrations. Accordingly, the selected remedy may not result in the level of risk reduction anticipated by the ROD. At the meeting on July 24, 1997, DEQ and EPA agreed to propose a ROD Amendment for public review, to ensure a cost-effective and protective soil remedy. E&E has drafted and DEQ has finalized a Proposed Plan which will be issued for public review. The public comment period will extend from October 1 through October 31, 1997.

Another issue concerns the presence of zinc and copper in groundwater. The existing water treatment systems provide for treatment of organic constituents only. Accordingly, the NPDES discharge limits for zinc and copper, as set forth in the ROD, have periodically been exceeded. DEQ and E&E evaluated alternatives for correcting this problem, and concluded that the treatment system should be modified to include treatment of inorganic contaminants by the use of ion exchange resins. Two different resin systems will be installed and evaluated, as soon as possible.

5. ACTIVITIES PLANNED FOR NEXT REPORTING PERIOD

During the next reporting period (October 1 through December 31, 1997), DEQ and EPA will issue a Proposed Plan for a ROD Amendment, concerning the soil remedy. E&E will submit the Aquifer Investigation Plan (AQUIP) Data Summary, and Conceptual Site Model. A meeting has been scheduled for DEQ, EPA and E&E to discuss the site model in November. E&E will also submit the draft Biological

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Treatment Test Plan (BTTP) for contaminated groundwater at the site. Fourth quarter 1997 groundwater monitoring will be conducted, and a third quarter 1997 Groundwater Monitoring Report will be submitted. DEQ will issue at least one fact sheet to the public, and will conduct at least two public meetings, concerning the proposed ROD Amendment. It is anticipated that a ROD Amendment will be signed in November, unless there are significant public comments to consider. Finally, DEQ and E&E hope to add inorganic treatment capability to the existing groundwater treatment systems, to address the elevated levels of zinc and copper periodically found in treatment system effluent.

attachments

TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 72390
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle
 Date: August 13, 1997
 Period: July 1, 1997 through August 2, 1997

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ²
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$0.00	\$0.00	0%
3-RD Project Administration	\$5,655.39	\$5,975.61	\$3,717.00	100%
4-RD Subcontractor Procurement	\$0.00	\$0.00	\$0.00	0%
5-RD Community Relations	\$0.00	\$0.00	\$0.00	0%
6-RD Data Acquisition	\$0.00	\$0.00	\$0.00	0%
7-Sample Analysis	\$0.00	\$0.00	\$0.00	0%
8-RD Data Validation	\$0.00	\$0.00	\$0.00	0%
9-RD Data Management	\$0.00	\$0.00	\$0.00	0%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$10,884.63	\$12,201.11	\$13,945.00	100%
<i>RD Subtotal</i>	<i>\$16,540.02</i>	<i>\$18,176.72</i>	<i>\$17,662.00</i>	<i>100%</i>
21-RA Planning and Support	\$5,133.05	\$5,453.27	\$3,656.00	100%
22-RA Site-Specific Plans	\$12,350.97	\$20,578.08	\$100,746.00	25%
23-Construction Contractor Procurement	\$1,471.85	\$1,471.85	\$2,432.00	0%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
27-RA Implementation	\$25,284.75	\$25,284.75	\$54,480.00	0%
<i>RA Subtotal</i>	<i>\$44,240.62</i>	<i>\$52,787.95</i>	<i>\$161,314.00</i>	<i>35%</i>
TOTAL	\$60,780.64	\$70,964.67	\$178,976.00	40%

² Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

Task 3: RD Project Administration. During this period, E & E attended the monthly meeting in Portland on July 24, 1997, prepared two budget and assumptions proposals (revised the risk assessment proposal and submitted the proposal for continuation of site activities through July 31, 1998), and conducted routine project management tasks such as resource allocation activities and financial oversight of RD project tasks.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	19	RD project management. meeting attendance. proposal preparation.
J. Montgomery	Program Manager	1	Proposal review
C. Thrasher		.25	Incorrect charge. Will be corrected on a future invoice.
K. Smith	Engineer	30	RD project management. meeting attendance. proposal preparation.
J. Wheeler	Engineer	4	Proposal spreadsheet preparation
L. Oakes	Intern	1	Proposal spreadsheet preparation

Task 11: Preliminary Design. During this reporting period, E & E prepared the residual risk evaluation for newly collected site data to calculate the site-related risks posed by dioxin soil concentrations and to determine if the selected soil remedy is sufficiently protective and appropriate for contaminants at the site (i.e., dioxin).

E & E also revised volume calculations and soil remedy cost estimates based on various potential soil RA scenarios (e.g., off-site disposal, varying depths of excavation).

Individual	Role	Hours	Activity
S. Fleming	Project Manager	13	Risk Evaluation review/revised soil remedy volume estimates/costs review
J. Wroble	Risk Assessor	22.5	Risk Evaluation preparation
K. Smith	Engineer	12	Revised soil volume calculations/cost estimates
K Connors	Engineer	20	Revised soil volume calculations/cost estimates
M. Ehle	Graphic Artist	4.5	Risk Evaluation graphics
G. Randall	Database Manager	40	Risk Evaluation preparation
A. Hanson	GIS	4	GIS figures
L. Oakes	Intern	21	Risk Evaluation preparation

Task 21: RA Planning and Support/Project Administration. During this period, E & E attended the monthly meeting in Portland on July 24, 1997, prepared a budget and assumptions proposal for continuation of site activities through July 31, 1998, and conducted routine project management tasks such as resource allocation activities and financial oversight of RA project tasks.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	16	RA project management. meeting attendance. proposal preparation.
J. Montgomery	Program Manager	1	Proposal review
K. Smith	Engineer	30	RA project management. meeting attendance. proposal preparation.
L. Oakes	Intern	.5	Proposal spreadsheet preparation

Task 22: RA Site Specific Plans. E & E conducted a DEQ file review to compile a comprehensive data summary for the site. E & E has compiled data collected by PTI, evaluated data for inclusion in the site database and usefulness for AQUIP preparation, and updated the site database. E & E also began AQUIP preparation and the revised conceptual site model.

Individual	Role	Hours	Activity
D. Anderson	Hydrogeologist	64	File searches/data summary
K Connors.	Engineer	22	Data compilation/review. identifying data gaps (soil)
M. Longtine	Geologist	40.5	Data compilation/review. identifying data gaps (groundwater)
K. Smith	Engineer	2	Data summary review
G. Randall	Data Manager	13	Database updates
J. Mihalek	Clerical	35.5	Data entry

Task 23: Construction Contractor Procurement. E & E amended our subcontracts with ADT, Northwest Protective, and Sound Analytical to continue services under the new task order.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	3	Reviewed subcontract revisions/extensions
K. Smith	Engineer	4	Prepared subcontract revisions/extensions
M. Wright	Subcontract Coordinator	11	Processed change orders.

Task 27: RA Implementation. During this reporting period, E & E initiated the Second 1997 Quarterly Report; conducted third quarter groundwater sampling; and continued routine site operations and oversight of the site operation subcontractors.

In response to reviewing treatment system effluent data that indicated the exceedance of established discharge limits, E & E evaluated treatment system add-on options and obtained cost and performance information for various ion exchange and water polishing systems. E & E also initiated the design and installation of dust suppression equipment to prevent off-site migration of nuisance dust from site activities. Kevin Smith conducted a site visit/inspection on July 23, 1997 to inspect the FWDA and pilot treatment systems and to evaluate dust suppression options with ADT.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	2	Oversight of site operation activities, communication with DEQ.
K. Smith	Engineer	86	Site visit, general site operations oversight, subcontractor coordination, evaluation of ion exchange and water polishing equipment, and quarterly report preparation.
D. Anderson	Hydrogeologist	12	Monitored site operations (NAPL extraction monitoring, water level measurements, and pressure transducer data downloading) and prepared quarterly report.
R. Earlywine	Engineer	4	Completed summaries of Phase I demolition and the electrical upgrade field activities for inclusion in the quarterly report.
M. Witnauer	Geologist	124	Conducted quarterly groundwater sampling; prepared the second quarter 1997 report; conducted routine site operations (NAPL extraction monitoring, water level measurements, and pressure transducer data downloading).
K. Miller	Technician	46	Conducted quarterly groundwater sampling.

3. ISSUES OF IMPORTANCE.

E & E submitted a draft proposal to DEQ on July 30, 1997 for continuation of RD/RA activities through July 31, 1998. Timely negotiation of this proposal will ensure uninterrupted site operations.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTIONS

None at this time.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Submit final proposal for site operations through July 31, 1998;
- Prepare effluent discharge information for potential revisions to the discharge limits;
- Submit the comprehensive data summary; and
- Submit the final risk evaluation.

6. DELIVERABLES SUBMITTED

Submitted draft proposal for site operations through July 31, 1998 and the final Second Quarter 1997 Report.

7. KEY PERSONNEL CHANGES

No personnel changes have occurred during this reporting period. E & E recently hired Chad Nancarrow, a P-2 level civil engineer. Chad will be based in Seattle and may work on McCormick & Baxter in the future. Chad has experience designing leachate and gas collection systems, landfills, caps, surface drainage and impoundments, and pump and treat systems. A copy of Chad's resume and his current labor rate will be forwarded under separate cover.

8. SUBCONTRACTING

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation.

9. DATA GENERATED

None.

10. MBE, WBE, SBRA INVOLVEMENT

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation.

11. LABORATORY SERVICES

None.

TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 72644
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle
 Date: October 3, 1997
 Period: July 1997

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ^a
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$0.00	\$3,594.00	0%
3-RD Project Administration	\$328.02	\$6,303.63	\$55,914.00	100%
4-RD Subcontractor Procurement	\$0.00	\$0.00	\$895.00	0%
5-RD Community Relations	\$0.00	\$0.00	\$7,214.00	0%
6-RD Data Acquisition	\$0.00	\$0.00	\$30,476.00	0%
7-Sample Analysis	\$0.00	\$0.00	\$8,000.00	0%
8-RD Data Validation	\$0.00	\$0.00	\$1,979.00	0%
9-RD Data Management	\$0.00	\$0.00	\$21,367.00	0%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$15.56	\$12,216.67	\$50,119.00	25%
RD Subtotal	\$343.58	\$18,520.30	\$179,558.00	15%
21-RA Planning and Support	\$6.15	\$5,459.42	\$53,366.00	15%
22-RA Site-Specific Plans	\$24.33	\$20,602.41	\$100,746.00	25%
23-Construction Contractor Procurement	\$0.00	\$1,471.85	\$12,648.00	15%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$0.00	\$1,939.00	0%
27-RA Implementation	\$19,141.33	\$44,426.08	\$523,515.00	10%
RA Subtotal	\$19,171.81	\$71,959.76	\$692,214.00	15%
TOTAL	\$19,515.39	\$90,480.07	\$871,772.00	15%

^a Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

This invoice includes trailing ODCs and subcontractor costs for the month of July 1997 only. No additional labor charges were incurred.

3. ISSUES OF IMPORTANCE.

No issues exist at this time.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

None at this time.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

Refer to the August 1997 invoice which is being submitted under separate cover.

6. DELIVERABLES SUBMITTED

Refer to the July 1997 invoice which was submitted on August 12, 1997. •

7. KEY PERSONNEL CHANGES

No personnel changes have occurred during this reporting period.

8. SUBCONTRACTING

Trailing subcontractor costs for ADT (SBE) for site operations and treatment system operation; Northwest Protective Services (WBE) for site security services; and Sound Analytical Services for analysis of the weekly effluent water samples are included in this invoice.

9. DATA GENERATED

Refer to the July 1997 invoice which was submitted on August 12, 1997.

10. MBE, WBE, SBRA INVOLVEMENT

ADT is a SBE; Northwest Protective Services is a WBE and MBE; and Sound Analytical Services is a SBE.

11. LABORATORY SERVICES

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

TASK ORDER PROGRESS REPORT

Contract/Task Order No.: 88-97-5
 E & E Invoice No.: 72795
 Site Name: McCormick & Baxter Remedial Design/Remedial Action
 E & E Project No.: OH4000
 Prepared by: Sheila Fleming, Project Manager, E & E, Seattle
 Date: October 8, 1997
 Period: August 3, 1997 through September 27, 1997

1. BUDGET STATUS SUMMARY

Task Description	Budget Expended this Period	Budget Expended to Date	Authorized Budget	Percent of Work Complete ^a
1-RD Project Planning and Support	\$0.00	\$0.00	\$0.00	0%
2-RD Site-Specific Plans	\$0.00	\$0.00	\$3,594.00	0%
3-RD Project Administration	\$9,208.43	\$15,512.06	\$55,914.00	30%
4-RD Subcontractor Procurement	\$913.44	\$913.44	\$895.00	100%
5-RD Community Relations	\$0.00	\$0.00	\$7,214.00	0%
6-RD Data Acquisition	\$663.31	\$663.31	\$30,476.00	5%
7-Sample Analysis	\$0.00	\$0.00	\$8,000.00	0%
8-RD Data Validation	\$0.00	\$0.00	\$1,979.00	0%
9-RD Data Management	\$0.00	\$0.00	\$21,367.00	0%
10-Treatability Studies	\$0.00	\$0.00	\$0.00	0%
11-Preliminary Design	\$8,504.71	\$20,721.39	\$50,119.00	40%
<i>RD Subtotal</i>	<i>\$19,289.89</i>	<i>\$37,810.20</i>	<i>\$179,558.00</i>	<i>20%</i>
21-RA Planning and Support	\$5,102.61	\$10,562.03	\$53,366.00	20%
22-RA Site-Specific Plans	\$34,912.27	\$55,514.68	\$100,746.00	50%
23-Construction Contractor Procurement	\$2,992.39	\$4,464.24	\$12,648.00	33%
25-Resident Inspection Services	\$0.00	\$0.00	\$0.00	0%
26-RA Data Validation	\$0.00	\$0.00	\$1,939.00	0%
27-RA Implementation	\$52,454.70	\$96,880.78	\$523,515.00	18%
<i>RA Subtotal</i>	<i>\$95,461.97</i>	<i>\$167,421.73</i>	<i>\$692,214.00</i>	<i>25%</i>
TOTAL	\$114,751.86	\$205,231.93	\$871,772.00	23%

^a Percent complete represents proportion of authorized work completed to date.

2. PROGRESS MADE DURING THE REPORTING PERIOD

Task 3: RD Project Administration. During this period, E & E provided two revised versions of the cost proposal which contains the funds for project activities through July 31, 1998. Preparation of this cost proposal required more effort than anticipated due to numerous project tasks and the extended task order period. E & E conducted routine project management tasks such as resource allocation and financial oversight of the RD activities. E & E prepared two invoices during this period and provided DEQ with a breakdown of project costs for July and August. E & E also attended the monthly project meeting on September 23, 1997.

E & E also provided technical assistance to DEQ during preparation of the Proposed Plan and Record of Decision (ROD) amendment associated with the soil remedy.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	50	Project management, cost proposal review, and ROD amendment, monthly meeting.
J. Montgomery	Program Manager	2.5	Oversight of project management activities, resource allocation, communication with DEQ.
C. Thrasher	Response Center	-0.25	Time sheet correction.
K. Smith	Engineer	11.5	Cost proposal revisions, invoice preparation, monthly meeting.
M. Ehle	Graphics	6.5	Proposed ROD amendment graphics.
C. Nancarrow	Engineer	2	Monthly meeting.
L. Oakes	Intern	5	ROD amendment assistance.

Task 4: RD Subcontractor Procurement. During this period, E & E prepared a scope of work for laboratory services as part of conducting the supplemental RD soil data acquisition field work. E & E conducted a competitive bid to procure the analytical services. In addition, E & E prepared a purchase order for ADT's services to provide excavation equipment and operator personnel to assist with collection of the soil samples.

Individual	Role	Hours	Activity
K. Smith	Engineer	3	ADT purchase order SOW preparation
C. Nancarrow	Engineer	5	Laboratory SOW preparation and communication with bidders.
E. Hamlin	Clerical	5.5	Word processing
M. Wright	Subcontract Coordinator	1.5	Subcontract procurement activities.

Task 6: RD Data Acquisition. During this period, E & E prepared field equipment, sample collection jars, and reviewed the project sampling plan. E & E also scheduled the field activities with the laboratory and site assistance subcontractor.

Individual	Role	Hours	Activity
C. Nancarrow	Engineer	4.5	Sample plan review, scheduled field activities.
K. Miller	Technician	8	Mobilized sampling equipment.

Task 11: Preliminary Design. During this period, E & E received comments from DEQ and EPA regarding the Draft Human Health Risk Evaluation Report. E & E reviewed the comments and revised the document accordingly. E & E also conducted activities to assist DEQ in the preparation of the Proposed Plan and ROD amendment under this task. In particular, E & E prepared revised cost estimates for three soil remedial action alternatives. Since these estimates will be used as part of subsequent soil RD activities, the work was conducted under this task.

Note - 16 hours for Kim Connors will be moved from this task to Task 2 in the subsequent invoice. These hours were incurred during preparation of the final Supplemental Soil Sampling Plan. These hours were placed into this task because Task 2 was not open when the work was incurred.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	6	Risk evaluation comment review
K Connors	Engineer	84	16 hours - Finalized Soil Sampling Plan ; technical assistance for preparation of the proposed plan and ROD amendment. Prepared cost estimates for three soil alternatives.
G. Randall	Database Manager	6	Revised risk evaluation
A. Hanson	GIS operator	2	Revised GIS figures used in risk evaluation.
L. Oakes	Intern	0.5	Revised risk evaluation

Task 21: RA Planning and Support/Project Administration. During this period, E & E provided two revised versions of the cost proposal which contains the funds for project activities through July 31, 1998. Preparation of this cost proposal required more effort than anticipated due to numerous project tasks and the extended task order period. E & E conducted routine project management tasks such as resource allocation and financial oversight of the RA activities. E & E also attended the monthly project meeting on September 23, 1997. E & E prepared two invoices during this period.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	20	Cost proposal revisions, project management, monthly meeting.
J. Montgomery	Program Manager	3.5	Oversight of project management activities, resource allocation, communication with DEQ.
K. Smith	Engineer	13.5	Cost proposal revisions, invoice preparation, monthly meeting.
C. Nancarrow	Engineer	4.5	Invoice preparation assistance, monthly meeting.
J. Mihalek	Clerical	3	Word processing, document publication

Task 22: RA Site Specific Plans. E & E completed preparation of the AQUIP Data Summary report, continued preparation of the AQUIP Conceptual Site Model (CSM) report and continued preparation of the Biological Treatment Test Plan during this period. The AQUIP Data Summary report was delivered to

DEQ on September 22, 1997. E & E's review of DEQ's project files was delayed due to concurrent file review by legal teams working on ongoing site related litigation. The delay did not impact E & E's level of effort or project costs, but has resulted in a delay of the AQUIP Data Summary deliverable. The BTTP is progressing without problems.

Upon compilation of the past site data, E & E focused effort on preparation of the CSM and identification of outstanding data gaps. A significant part of the CSM is interpretation and presentation of the site data in order to describe the site characteristics.

Individual	Role	Hours	Activity
D. Shivjani	Senior Project Engineer	15	Biological Treatment Test Plan (BTTP) report preparation guidance and technical review.
P. Bourdage	Editor	6	AQUIP data summary editing.
J. Montgomery	Program Manager	3	AQUIP Data Summary document review
D. Anderson	Hydrogeologist	94.5	AQUIP Data Summary report preparation, file review, data organization, CSM document preparation, computer modeling, and data interpretation.
M. Longtine	Geologist	49	AQUIP Data Summary compilation, organization, and interpretation. Compilation of data gaps for CSM.
K. Smith	Engineer	62	Tracked progress of AQUIP work activities, organized BTTP document preparation requirements, reviewed sections of the BTTP. Reviewed AQUIP data summary report.
C. Nancarrow	Engineer	115.5	BTTP report preparation, technology research and evaluation, work plan preparation.
M. Witnauer	Geologist	76	AQUIP data Summary report preparation, conceptual site model computer work.
R. Whitlock	Computer Coordinator	4.5	Conceptual Site Model file transfer assistance
E. Martin	CAD operator	4	CSM graphics
G. Randall	Data Manager	4	AQUIP Data Summary electronic database revisions.
E. Hamlin	Clerical	7.25	Word processing.
F. Cramer	Clerical	7	Word processing.
A. Saxton	Clerical	0.5	Word processing.
J. Mihalek	Clerical	33	Data entry, document publication, word processing

Task 23: Construction Contractor Procurement. E & E modified current subcontracts for site operations, security, and effluent analysis to extend these activities to the end of August. These modifications were conducted in accordance with the Task Order extension issued by DEQ on July 30, 1997.

Following DEQ's approval of E & E's August 21, 1997 cost proposal, E & E initiated the re-bid activities associated with the existing security, effluent laboratory, and site operations subcontract.

Individual	Role	Hours	Activity
K. Smith	Engineer	6.5	Organized re-bid activities, reviewed SOWs, reviewed evaluation letters
C. Nancarrow	Engineer	16.5	Subcontract SOW preparation, bidder communication, prepared bid evaluation letters.
M. Wright	Subcontract Coordinator	16.5	Subcontract re-bid management
M. Elliott	Clerical	0.25	Word processing
F. Cramer	Clerical	1	Word processing

Task 27: RA Implementation. During this period, E & E continued to provide routine oversight of all current site activities and on going remedial actions. E & E conducted numerous site visits to collect NAPL measurements, download pressure transducer data, inspect the operation of the FWDA treatment system, and monitor the influence of the FWDA NAPL extraction pumps on the NAPL quantity within the FWDA wells. E & E monitored the site operation subcontractor's work activities, tracked the progress of current work, and scheduled up coming work.

E & E completed draft and final versions of the second quarter 1997 Quarterly Report. The draft report was delivered to DEQ on August 14, 1997; the final report was delivered on September 23, 1997. E & E conducted data validation of one effluent sample in accordance with the new task order during this period. The effort was temporarily charged to this task since Task 26 was not open when the charges were incurred. These hours will be amended to the correct task in the subsequent invoice.

During this period, the site operation subcontractor completed installation of a dust suppression system. The systems utilizes readily available city water distributed through an above ground piping network to irrigation type sprinklers. The system was operational during the first week of August.

Upon DEQ's approval of E & E's August 21, 1997 cost proposal, E & E established new purchase orders for DAF chemicals, GAC vessels, and rental of the Baker tanks. These new purchase orders are valid from August 1, 1997 to July 31, 1998. E & E provided assistance to DEQ's project officer to decide how to address the exceeding the site discharge limits by the two site treatment systems. At DEQ's request, E & E summarized all past effluent data and presented possible new discharge limits. E & E also provided information regarding extension of the site discharge pipes for DEQ's staff to utilize in evaluating the mixing effects in the river. As an alternative to increasing the site discharge limits, E & E drafted a memo to DEQ that presented an option to utilize ion exchange as a polishing treatment step.

Individual	Role	Hours	Activity
S. Fleming	Project Manager	2	Task management, report review
P. Bourdage	Editor	6	Draft and Final Quarterly report editing and publication.
S. Fleming	Project manager	8	Draft and Final Quarterly report review.
D. Ikeda	Chemist	3	Performed data validation of one effluent sample. These hours will be amended to Task 26 in the subsequent invoice.

Individual	Role	Hours	Activity
K. Smith	Engineer	110.5	Quarterly report preparation, oversight of site operation subcontractor activities, established new purchase orders for DAF chemicals, GAC vessels, and Baker tanks. Provided regular communication with site technician to evaluate site activities. Reviewed ion exchange vendor information.
R. Earlywine	Engineer	4	Revised Draft Quarterly Report to incorporate DEQ's comments.
D. Anderson	Hydrogeologist	18	Site inspection of FWDA NAPL extraction system operation and site technician data collection activities, quarterly report preparation.
M. Witnauer	Geologist	89	Quarterly report preparation, site activities including pressure transducer data downloading, collection of NAPL measurements, inspection of the FWDA NAPL extraction and treatment system operation, inspection of the dust suppression system installation work.
M. Longtine	Geologist	3	Evaluation of pressure transducer data.
C. Nancarrow	Engineer	27.5	Coordinated backflow valve testing services, compiled ion exchange information and costs for presentation to DEQ at monthly meeting. Prepared memo to DEQ associated with modifying site discharge limits and extending the existing outfalls.
E. Martin	CAD/graphics	29	Prepared graphics for quarterly report, modified DXF CAD files for improved performance within SURFER and GMS modeling software as part of the quarterly report activities.
S. Dolberg	Engineer	1.5	Computer entry of effluent analytical data.
M. Elliott	Clerical	1.5	Final Quarterly report publication
E. Hamlin	Clerical	1.25	Final Quarterly report publication
A. Saxton	Clerical	1.5	Draft Quarterly report publication, reproduction, and distribution.
F. Cramer	Clerical	1.5	Draft Quarterly report word processing.

3. ISSUES OF IMPORTANCE.

No issues exist at this time.

4. POTENTIAL/CURRENT PROBLEM AND RECOMMENDED SOLUTION

File search activities, as part of the Data Summary Report were delayed due to concurrent file review by legal staff working on going litigation. This delay resulted in a delay of E & E's deliverable to DEQ. No additional labor was incurred by E & E due to the delay.

5. KEY ACTIVITIES/SCHEDULE FOR SUBSEQUENT REPORTING PERIOD

- Submittal of the AQUIP Conceptual Site Model report;
- Implementation of the Supplemental Soil Sampling Plan;
- Submittal of the BTTP report/work plan;

- Review of the proposed ROD amendment plan;
- Submittal of the 3rd quarter 1997 Quarterly Report; and
- Attendance at the October 9, 1997 public meeting.

6. DELIVERABLES SUBMITTED

- Draft Second Quarter 1997 Quarterly Report delivered to DEQ on August 14, 1997
- Budget and Assumption Proposals submitted on August 19, 1997 and August 21, 1997.
- AQUIP Data Summary Report delivered on September 22, 1997;
- Final Second Quarter 1997 Quarterly Report delivered to DEQ on September 23, 1997.

7. KEY PERSONNEL CHANGES

No personnel changes have occurred during this reporting period.

8. SUBCONTRACTING

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

9. DATA GENERATED

Weekly treatment system effluent analytical data was generated during this period. The results are summarized in the quarterly reports.

10. MBE, WBE, SBRA INVOLVEMENT

ADT (SBE) was utilized during this reporting period for site operations and treatment system operation. Northwest Protective Services (WBE) was utilized during this period for site security services. Sound Analytical Services was utilized to analyze the weekly effluent water samples.

11. LABORATORY SERVICES

Sound Analytical Services was utilized to analyze the weekly effluent water samples.

WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Action ()
For Month of July 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Jo Brooks	Coordination	1.50
	Employee Total:	1.50
Steve Campbell	Meetings	4.50
	Coordination	10.00
	Document Prep	1.00
	Document Review	1.00
	Employee Total:	16.50
Bill Dana	Meetings	1.00
	Communication	5.50
	Coordination	1.00
	Document Prep	2.00
	Document Review	4.50
	Employee Total:	14.00
		32.00

WMC TIME ACCOUNTING SYSTEM
 DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
 (Does not include DEQ lab labor)
 Business Office Project
 McCormick & Baxter Remedial Design ()
 For Month of July 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Meetings	4.00
	Coordination	10.00
	Document Prep	1.50
	Document Review	1.00
	Employee Total:	16.50
Bill Dana	Meetings	9.50
	Communication	20.00
	Coordination	16.50
	Document Prep	7.00
	Document Review	5.00
Employee Total:	58.00	
Kevin Dana	Records Management	1.50
	Employee Total:	1.50
Bruce Gilles	Meetings	6.00
	Document Review	1.00
Employee Total:	7.00	
Bruce Hope	Meetings	1.00
	Document Review	2.00
Employee Total:	3.00	
Jill Kiernan	Document Review	4.50
	Employee Total:	4.50
Karin Koslow	Communication	1.50
	Document Review	12.00
Employee Total:	13.50	
Barbara Petzing	Clerical/Admin Support	16.50
	Employee Total:	16.50
Lon Revall	Coordination	1.00

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WMC TIME ACCOUNTING SYSTEM
DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
(Does not include DEQ lab labor)
Business Office Project
McCormick & Baxter Remedial Design ()
For Month of July 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
-----	-----	-----
	Employee Total:	1.00

		121.50

WMC TIME ACCOUNTING SYSTEM
 DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
 (Does not include DEQ lab labor)
 Business Office Project
 McCormick & Baxter Remedial Action ()
 For Month of August 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	11.00
	Document Prep	2.00
	Document Review	5.00
	Employee Total:	18.00
Bill Dana	Communication	2.00
	Coordination	1.00
	Document Prep	1.00
	Document Review	2.50
	Financial Management	.50
Employee Total:	7.00	
		25.00

WMC TIME ACCOUNTING SYSTEM
 DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
 (Does not include DEQ lab labor)
 Business Office Project
 McCormick & Baxter Remedial Design ()
 For Month of August 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	7.00
	Document Prep	4.50
	Document Review	5.50
	Employee Total:	13.00
Bill Dana	Travel	1.00
	Meetings	2.50
	Communication	18.50
	Coordination	9.50
	Document Prep	8.00
	Document Review	7.00
	Site Visits	6.50
	Financial Management	1.00
Employee Total:	54.00	
Kevin Dana	Records Management	1.00
Employee Total:	1.00	
Karin Koslow	Meetings	2.00
	Communication	1.50
	Document Review	5.00
Employee Total:	8.50	
Barbara Petzing	Clerical/Admin Support	4.00
Employee Total:	4.00	
		80.50

WMC TIME ACCOUNTING SYSTEM
 DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
 (Does not include DEQ lab labor)
 Business Office Project
 McCormick & Baxter Remedial Action ()
 For Month of September 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Travel	4.50
	Meetings	3.50
	Coordination	15.50
	Document Review	5.50
	Employee Total:	29.00
Bill Dana	Travel	3.50
	Meetings	2.00
	Communication	5.50
	Coordination	4.00
	Document Review	1.00
	Site Visits	1.00
	Analysis and Planning	.50
Employee Total:	17.50	
Jill Kiernan	Coordination	1.00
Employee Total:	1.00	
		47.50

WMC TIME ACCOUNTING SYSTEM
 DIRECT LABOR SUMMARY FOR ENVIRONMENTAL CLEANUP LABOR
 (Does not include DEQ lab labor)
 Business Office Project
 McCormick & Baxter Remedial Design ()
 For Month of September 1997

STAFF NAME	ACTIVITY NAME	ACTIVITY HOURS
Steve Campbell	Coordination	7.50
	Document Review	1.00
	Employee Total:	8.50
Bill Dana	Travel	3.50
	Meetings	2.50
	Communication	18.00
	Coordination	16.50
	Document Prep	37.00
	Document Review	6.50
	Site Visits	1.50
	Analysis and Planning	.50
	Financial Management	.50
Employee Total:	86.50	
Kevin Dana	Records Management	1.50
	Employee Total:	1.50
Bruce Gilles	Document Review	1.00
	Employee Total:	1.00
Jill Kiernan	Document Review	4.50
	Employee Total:	4.50
Karin Koslow	Meetings	1.50
	Communication	4.50
	Employee Total:	6.00
Barbara Petzing	Clerical/Admin Support	3.00
	Employee Total:	3.00
Lon Revall	Document Review	1.50
	Employee Total:	1.50
		112.50

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**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
 REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE
 V-990601-1
 FOR THE PERIOD OF 7/01/97 - 7/31/97**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 3,090	\$ -	\$ 30,499
Services & Supplies	90,226	-	501,093
Capital Outlay	-	-	-
Total Direct Cost	93,316	-	531,592
Indirect Cost:	606	-	6,009
TOTAL COST	\$ 93,922	\$ -	\$ 537,601

Includes final costs for fiscal year 1997 and payments made through 10/15/97 to liquidate obligations at 7/31/97.

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
 REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE
 V-990601-1
 FOR THE PERIOD OF 7/01/97 - 7/31/97**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 873	\$ -	\$ 32,931
Services & Supplies	309,569	-	1,012,828
Capital Outlay	-	-	-
Total Direct Cost	310,442	-	1,045,759
Indirect Cost:	171	-	6,487
TOTAL COST	<u>\$ 310,613</u>	<u>\$ -</u>	<u>\$ 1,052,246</u>

Includes final costs for fiscal year 1997 and payments made through 10/15/97 to liquidate obligations at 7/31/97.

REMEDIAL DESIGN at the MCCORMICK & BAXTER SUPERFUND SITE

FUND 674

V-990601-1

SUMMARY WORKSHEET

06/01/96 - 07/31/97

QTR	1st 06/01/96 06/30/96	2nd 07/01/96 09/30/96	3rd 10/01/96 12/31/96	4th 1/01/97 3/31/97	5th 4/01/97 6/30/97	FINAL COSTS FY 97	6th 07/01/97 07/31/97	COSTS TO DATE
PS	\$ 3,288.36	\$ 4,218.27	\$ 7,938.58	\$ 5,159.61	\$ 6,804.79	\$ -	\$ 3,089.58	\$ 30,499.19
SS	1,261.24	1,248.12	20,389.54	322,936.01	65,031.65	29,475.00	60,751.11	501,092.67
CO	-	-	-	-	-	-	-	-
TOTAL-DIRECT	4,549.60	5,466.39	28,328.12	328,095.62	71,836.44	29,475.00	63,840.69	531,591.86
FY 98 - 19.63%	-	-	-	-	-	-	606.49	606.49
FY 97 - 19.70%	-	830.99	1,563.90	1,016.44	1,340.55	-	-	4,751.88
FY 96 - 19.80%	651.10	-	-	-	-	-	-	651.10
TOTAL	\$ 5,200.70	\$ 6,297.38	\$ 29,892.02	\$ 329,112.06	\$ 73,176.99	\$ 29,475.00	\$ 64,447.18	\$ 537,601.33
Encumbrances:								-
GRANT AWARD								1,038,382.00
AWARDED TO DATE								1,038,382.00
(OVER)/UNDER SPENT								<u>\$ 500,780.67</u>

REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE

FUND 675

V-990601-1

SUMMARY WORKSHEET

06/01/96 - 07/31/97

QTR	1st 06/01/96 06/30/96	2nd 07/01/96 09/30/96	3rd 10/01/96 12/31/96	4th 1/01/97 3/31/97	5th 4/01/97 6/30/97	FINAL COSTS FY 97	6th 07/01/97 07/31/97	COSTS TO DATE
PS	\$ -	\$ 2,092.18	\$ 8,053.46	\$ 12,505.15	\$ 9,407.35	\$ -	\$ 873.02	32,931.16
SS	4,012.72	49.50	56,245.69	203,246.51	439,705.02	249,750.13	59,818.89	1,012,828.46
CO	-	-	-	-	-	-	-	-
TOTAL-DIRECT	4,012.72	2,141.68	64,299.15	215,751.66	449,112.37	249,750.13	60,691.91	1,045,759.62
FY 98 - 19.63%	-	-	-	-	-	-	171.37	171.37
FY 97 - 19.70%	-	412.15	1,586.53	2,463.51	1,853.27	-	-	6,315.46
FY 96 - 19.80%	-	-	-	-	-	-	-	-
TOTAL	\$ 4,012.72	\$ 2,553.83	\$ 65,885.68	\$ 218,215.17	\$ 450,965.64	\$ 249,750.13	\$ 60,863.28	\$ 1,052,246.45
Encumbrances:								-
GRANT AWARD								1,433,940.00
AWARDED TO DATE								1,433,940.00
(OVER)/UNDER SPENT								<u>381,693.55</u>

**STATE OF OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
 REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE
 V-990601-02
 FOR THE PERIOD OF 8/1/97 - 9/30/97**

	This Period Expenditures	Encumbrances	Total Expenditures To Date
Personal Services/OPE	\$ 6,930	\$ -	\$ 6,930
Services & Supplies	8,646	618,045	626,691
Capital Outlay	-	-	-
Total Direct Cost	15,576	618,045	633,621
Indirect Cost:	1,360	-	1,360
TOTAL COST	\$ 16,936	\$ 618,045	\$ 634,981

REMEDIAL ACTION at the MCCORMICK & BAXTER SUPERFUND SITE

FUND 673

V-990601-02

SUMMARY WORKSHEET

8/1/97 - 9/30/01

QTR	1st	2nd	3rd	4th	Final	5th	6th	7th	8th	1st	2nd	3rd	4th	5th	COSTS TO DATE
	8/1/97 9/30/97	10/01/97 12/31/97	1/01/98 3/31/98	4/01/98 6/30/98	Costs FY 98	07/01/98 09/30/98	10/01/98 12/31/98	1/01/99 3/31/99	4/01/99 6/30/99	07/01/99 09/30/99	10/01/99 12/31/99	1/01/01 3/31/01	4/01/01 6/30/01	07/01/01 09/30/01	
PS	\$ 6,930.01	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	6,930.01
SS	8,645.87	-	-	-	-	-	-	-	-	-	-	-	-	-	8,645.87
CO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL-DIRECT	15,575.88	-	-	-	-	-	-	-	-	-	-	-	-	-	15,575.88
FY 98 -19.63%	1,360.36	-	-	-	-	-	-	-	-	-	-	-	-	-	1,360.36
TOTAL	\$ 16,936.24	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,936.24
Encumbrances:															618,045.00
GRANT AWARD															15,852,656.00
AWARDED TO DATE															2,000,000.00
(OVER)/UNDER SPENT															<u>\$ 1,365,018.76</u>

RECEIVED

NOV 03 1997
OREGON OPERATIONS OFFICE
EPA-REGION 10

October 30, 1997

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Al Goodman
U.S. Environmental Protection Agency
Oregon Operations Office
811 SW Sixth Ave.
Portland, OR 97204

Re: McCormick & Baxter Site
RD/RA Coop. Agreement
Quarterly Progress Report

Dear Al:

Enclosed is a Quarterly Progress Report for the McCormick & Baxter Creosoting Co. NPL site, as required by Remedial Design/Remedial Action (RD/RA) Cooperative Agreement number V-990601-02, between the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ). The report is for the period July 1 through September 30, 1997.

If you have any questions concerning this report, please let me know.

Sincerely,

Bill Dana

William H. Dana
Project Manager
Waste Mgmt. & Cleanup Division

enclosure

cc: Steve Campbell, DEQ (w/encl.)
Sheila Fleming, E&E (w/o encl.)



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993
DEQ-1

